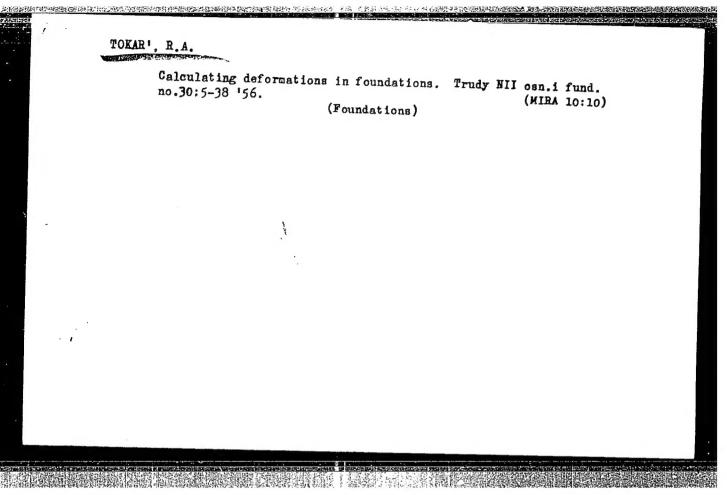
TOKAR', M.I., inzh.

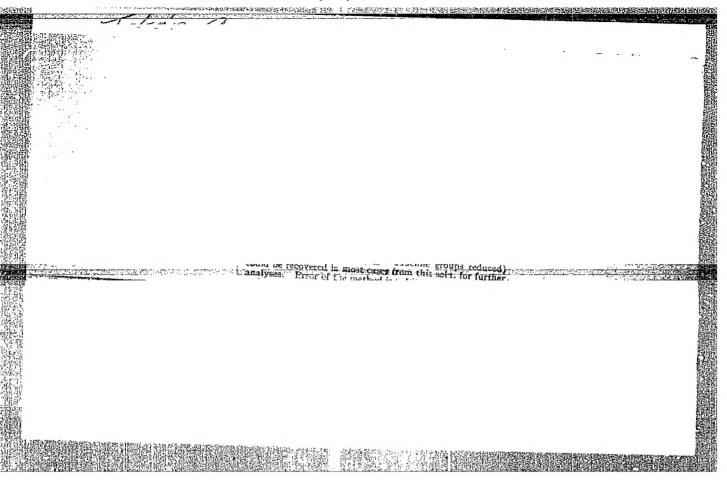
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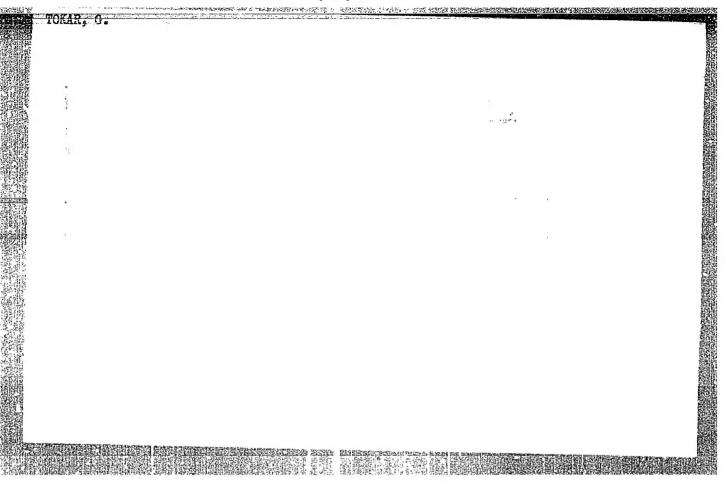
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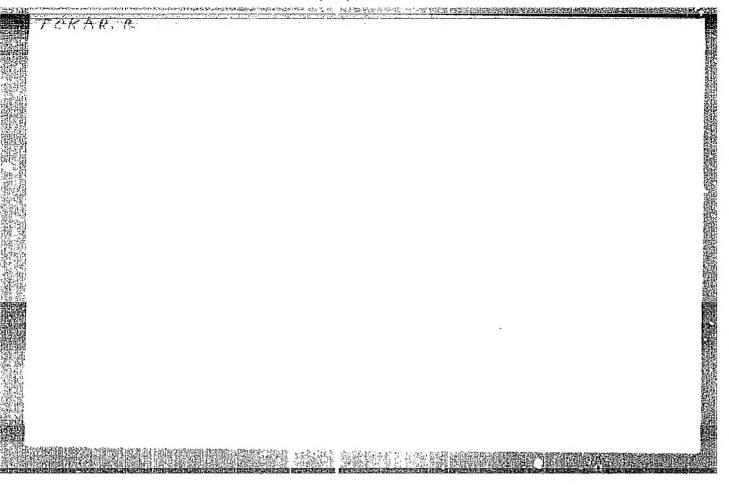
TOKAR, Peter Let us utilize better values not yet found in inventions! Musz elet						
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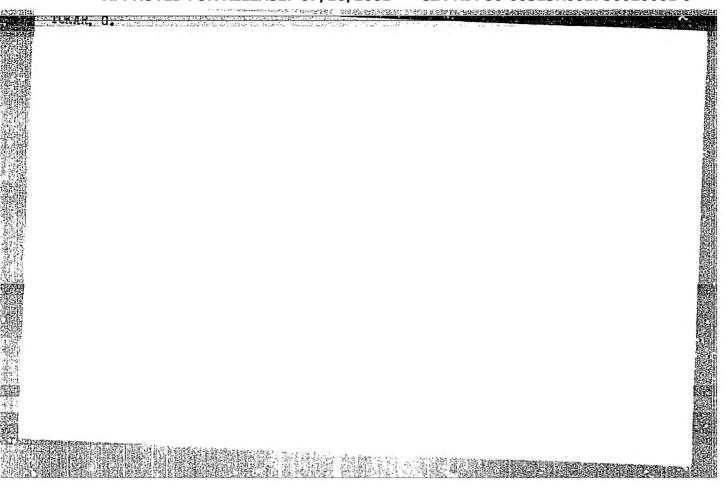
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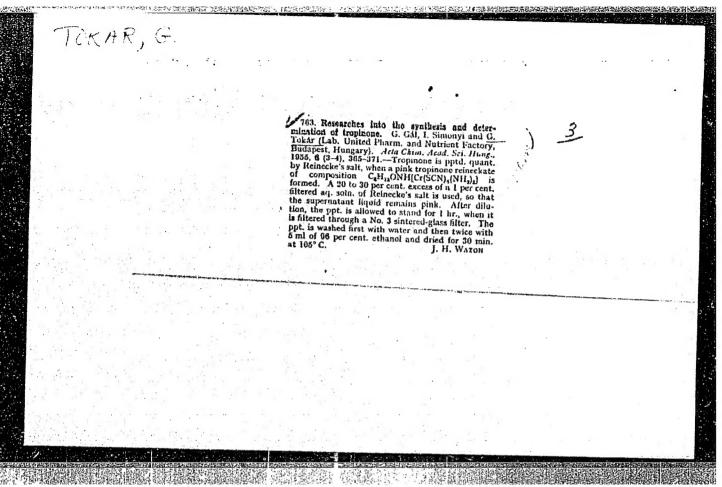


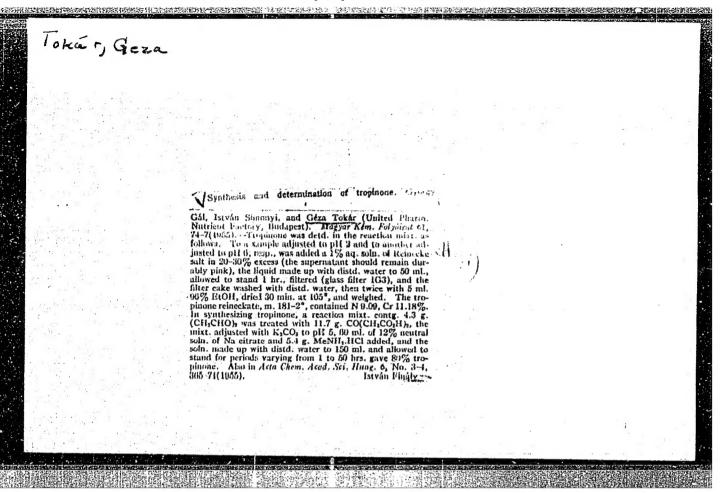


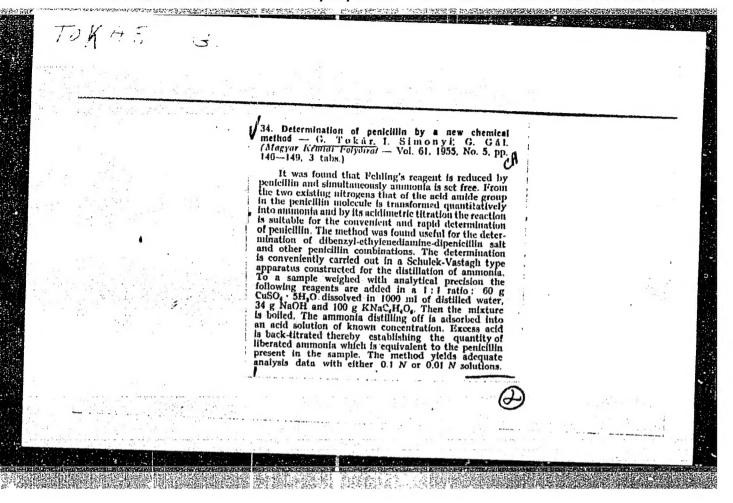


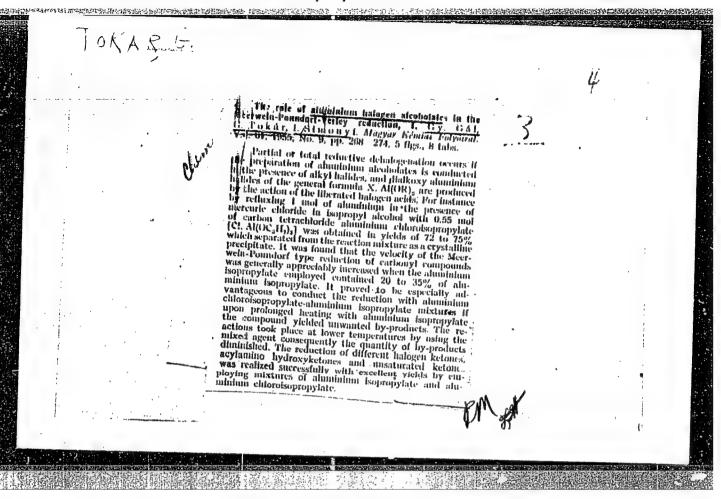












TOKAK GEZA

Hungary/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61476

Author: Gal, Gyorgy; Simonyi, Istran; Tokar, Geza

Institution: None

Title: Role of Aluminum Haloalcoholates in the Meerwein-Ponndorf-Verley Reduction. II. Reduction of α -Bromoketones by Means of a Mixture of Aluminum Isopropylate and Aluminum Chlorisopropylate

Original

Periodical: Aluminium-halogemalkoholatok szerepe a Meerwein-Ponndorf-Verley redukcional. II. α -Bromketonok redukcioja aluminium izopropilat es aluminium-klorizopropolat keverekevel, Magyar. kem. folyoirat, 1955, 61, No 11, 362-367; Hungarian; German resumé; Acta chim. acad. sci. hung., 1955, 8, No 1-3, 63-169; English; Russian and

Abstract: Reduction of α -secondary bromoketones and α -bromisobutyrophenone

(I) according to Meerwein-Ponndorf, using the mixture (iso-C3H70)3Al (II) + (iso-C3H70)2AlX (IIIIr = Br, IVX = Cl) gives a

Card 1/3

Hungary/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61476

Abstract: good yield of corresponding bromhydrines. Formation of C6H5CHBrC(CH3) = CH2 and C6H5CH & C(CH3)CH2Br in the course of the reduction of I with II (Stevens, P. G., et al, J. Amer. Chem. Soc., 1940, 62, 1424) is due to intermediate formation of C6H5CHOHCBr(CH3)2 (V). To α-bromopropiophenone (VI) (from propiophenone and Br2, 0.3 mol each in 200 ml absolute C6H6) are added within 10-15 minutes 0.9 mol II in 400 ml absolute C6H6, and let stand at ~200. II reacts partially with HBr contained in the solution and yields III; molar ratio II:III 0.66:0.24. After 24 hours (degree of conversion 92.5%) poured into a mixture of 1 kg ice 100 ml concentrated H2SO4, yield of C6H5CHOHCHBrC2 (VII) 84.14, BP 102-104 / 5 mm. On reduction (48 hours) of α-bromopropiophenone (0.3 mol) with mixture of 0.3 mol II and 0.1 mol IV yield of VII is 81.7%, to a solution of 0.6 mol II and 0.2 mol IV in 600 ml absolute C6H6 are added with cooling within 15-20 minutes 0.5 mol 2-bromocyclo-hexanone, let stand for 24 hours, yield of 2-bromocyclohexanol 73%, BP 85-870/10 mm. High yields and absence of products containing no Br (see Stevens, et al, loc. cit.) are due to low temperatures of the reaction (0-200) possible due to the

Card 2/3

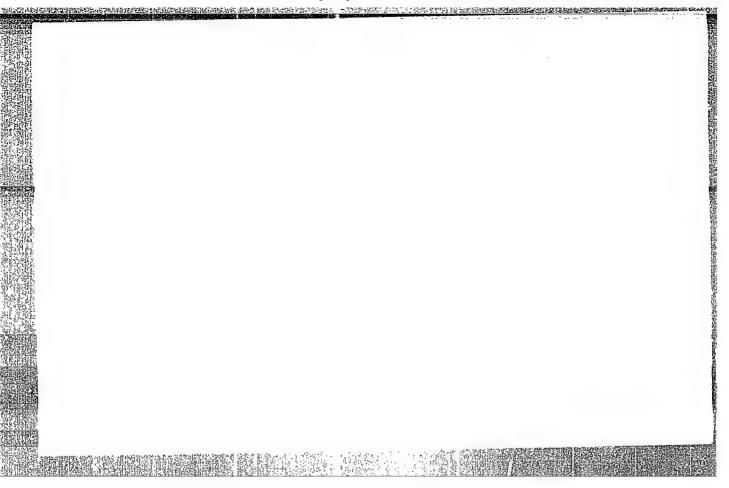
Hungary/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61476

Abstract: accelerating action of III or IV. To a solution of 1 mol II and 0.4 mol IV in 1.2 1 absolute CoHo are added dropwise (30 minutes, 0-3°) 1 mol I let stand for 24 hours in the cold, yield of V 98.5% n²⁵D 1.5497. On distillation (5 mm) V loses water and is converted to C6H5CHC(CH3)CH2Br. Acetyl derivative of V (from 22.9 g V and 50 ml CR₃COCl, boiled for 2 hours, yield 17.2 g) BP 117-1190/5 mm, MP 55-560 (from ethyl acetate + petroleum ether). Velocity of reduction of I and isobutyrophenone with mixture of II and IV (1:2) is about equal. Communication I, see Referat Zhur - Khimiya, 1956, 57915.

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"



SIMONYI, Istvan; TOKAR, Geza

Reaction of propionaldehyde with chloroaluminum alcoholates. Magy kem folyoir 65 no.2:50-52 F 159.

1. Egyesult Gyogyszer- es Tapszergyar Laboratoriuma, Budapest.

TOKAR, Geza; SIMONYI, Istvan

Determination of 2-methyl-2.3-pentene in presence of 2-methyl-valeraldehyde. Magy kem folyoir 68 no.8:333-335 Ag 162.

1. Egyesult Gyogyszer- es Tapszergyar, Budapest.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

SIMONYI, Istvan; TOKAR, Geza

A new reagent for titrations in an anhydrous medium. IV. Measuring organic acid salts in glacial acetic acid medium by chloroaluminumizopropylate. Magy kem folyoir 66 no. 2:74-76 F. '60.

1. Egyesult Gyogyszer- es Tapszergyar Laboratoriuma, Budapest.

TOKAR, Geza; SIMONYI, Istvan

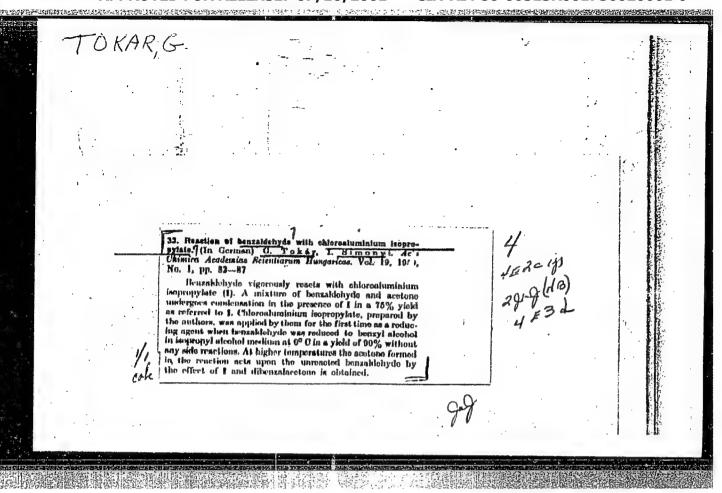
Chloroaluminum alcoholate reactions with organic acids. Magy kem folyoir 66 no. 6:201-203 Je 60.

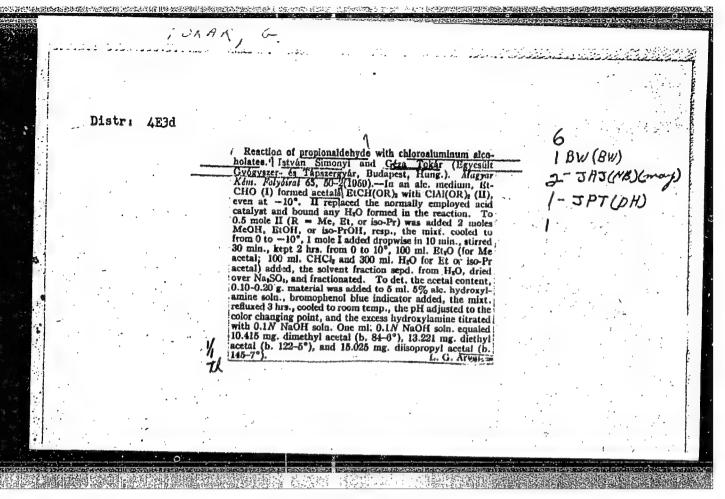
1. Egyesult Gyogyszer- es Tapszergyar, Budapest.

Distr: LE2c(1)/LE3b/LE3d

V Reactions of chloroaluminum alcoholates with organic acids. Géza Tokár and István Simonyi (Egyesült Gyöxyzett Tápsietxyz: Budapest, Hung) Magyar Kem. Polygusi. 66, 201-3(1960).—Chloroaluminum alcoholates reacted with org. acids to give the chloroaluminum salt of the acid, if the reaction was run in the cold: CLAU(NR) (I) + 2 R'CO₂H → ClAl(O₂CR'); + 2 ROH. If the mixture was heated, an ester was formed: CLAI(OR); + 2 R'CO₂H → 2 RCO₂R' + ClAl(OH). The formation of the ester was greatly influenced by the soly of the primary product in the reaction mixt. In the case of aromatic acids the low soly. of the sait prevented esterification, while with low-mol. wt. aliphatic acids, the ester formed almost quant. In the course of the expts., iso-PrO \chick was prepd. from 50 g (150-PrO\chick) and 40 g \chick AcOH in 33 6% yield by refluxing the mixt. 1-2 hrs. and adding water to sep the ester Similarly, MeO₂CCHCl₁ (II) was prepd. in 7.3.3% yield. Yields were higher if the HCl salts of I were used. II was prepd. (95.5% yield) after 1 hr. of boding. In the same manner, EtO₁CCHCl₂ (85.6% yield), EtO₂CH₂Ph (71.7% yield), and di-Me phthalate (28.2%) were prepd Prepa of chloroduminum acetate (III) was described, as well as the reaction of III with uso-PrOH. Reaction of III with HCl and the ClAnOH.

4 1-BW(BW) 2-jag(NB)(May) 3





COUNTRY : Hungary CATEGORY ABS. JOUR. : AZKhim., No. 22 1950, No. 78556 : Tokar, G. and Simonyi, I. WITHOR : No. FLVET : The Asaction of Benzaldedye with Aluminum Califolie 11211 Leopropylate ORIG. 203. : Magyar Kem Folyoirat, 54, ap 10, 577-578 (1956) : The authors have shown that in the reaction of benzaldehyde (I) with (iso-C, H, O), AICL (II) the ABSTRACT reduction of I to beazyl alcohol (III) may be paralled by a condensation of I with the sessone (IV) produced in the reaction to give dibenzalacatone (V). Shen IV to added to the reaction sixture, v is formed as the moun product. 1 . . un II in 50 ml abs iso-C, % Oh is treated dropaics with a mixture of 31.8 gas I and 8.7 gas IV. the resulting mixture is heated for 1 br at 50-60°. 2.301: 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

10 Committee of the Com

: Hungary 79501 CATEGORY 1959, No. RZKhime, No. ABS. JOUR. Tokar, G. and Simonyi, I. A New Reagent for Volumetric Analysis in Nonaqueous Media. III. The Determination of Derivatives of Aniline, Pyridine, and of Esters of p-Aminobenzoic AUTHOR INST. ORIG. PUB. : Magyar Kem Folyoirat, 64, No 10, 379-382 (1958) TITLE The determination of aniline, p-anisidine, pphenetidine, 2,6-disminopyridine, and of the esters of p-aminobenzoic acid, e.g., novocaine and xylocaine, is carried out by titration with ABSTRACT O.l n Cl-Al-isopropylate in CHCl3, in the presence of Ethyl Orange or of Dimethyl Yellow (0.1% solutions in CHCl₃). 40-80 mg of sample in 5-10 ml of solvent are titrated under natural light, pchloroaniline cannot be titrated by the above procedure, which makes it possible to determine CARD: 1/2 *Acid with the Hydrochloride Complex of C1-A1-isopropylate.

CIA-RDP86-00513R001756020

TOKAR, G.; SIMONYI, I.

Reaction of benzaldehyde with chloroaluminum isopropylate. p.83 ACTA CHIMICA. Budapest, Hungary. Vol. 19, no. 1, 1959

Monthly List of East European Accessions (EEAI), IC. Vol.8, No. 9. September 1959 Uncl.

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ANG. JOUR.	: RZKhim., Mo. 21 1959, No.	74835
ACTROR IN FR. Piggs	: Simonyi, I. and Tokar, G. : Not given : The Reaction of Propional dehyde w Alboxycoloride	
ORIG. PUB.	: Magyar Kem Folyoirat, 69, No 2, 5	0-52 (1959)
ASSTRACT	: The authors have investigated the AlCl(OR) ₂ on C ₂ H ₂ CHO (I). The revery vigorously. It has been four catclyzes the process. A mixture AlCl(OR) ₂ and 2 mols of the corrects cooled to temperatures from -13 treated for 10 min with 1 mol I: with ether (in the case of CH ₂ OH) the case of C ₂ H ₂ OH or iso-C ₃ H ₂ OH) yields C ₂ H ₂ OH(OR) ₂ (R and the bp i	action proceeds nd tast AlCL(OR); of 0.5 mol sponding ACH 0 to 0° and extraction or CACL; (in
UARD: 1/2		
G	99	j

CCUNTRY		
CATEGORY "	: Hungary	ű-c
	: AZKhim., 80. 21 1959, 20.	74836
ANTHOR 1952. TITLE	: :	
ORIG. PUB.		
ABOFRACT	: given): C.,, 84-36 (a26 0.8649), C2 E (d25 0.8239): iso-C, E7, 149-147. The the product obtained (determined by t amine method) is 97, 98.9, and 99.5%, S. Rozen.	burity of he hydroxyl- respectively

HUNGARY / Organic Chemistry. Synthesis.

G-2

Abs Jour: Ref Zhur-Khimiya, No 7, 1959, 23451

Author : Simonyi, I.; Tokar, G.
Inst : Academy of Sciences, Hungary

: Study of Aluminum Alcoholates. I. Aliphatic Halo-Title

gen Aluminum Alcoholates. Preparation and Thermal Decomposition of Hydrochloric Complexes of Halogen Aluminum Alcoholates. II. Reactions of Aluminum Phenolate and Aluminum Benzylate with Hydrochloric

Acid.

Orig Pub: Acta chim. Acad. scient. hung., 1958, 15, No 3,

291-295; 297-300.

Abstract: I. Halogen aluminum alcoholates AlC1(OR)2 (IIa)

 $(R = CH_3, C_2H_5, C_3H_7, iso-C_3H_7 \text{ and } tert-\bar{C}_4H_9)$ were prepared by the introduction of 1 mole of

Card 1/3

HUNGARY / Organic Chemistry. Synthesis.

G-2

Abs Jour: Ref Zhur-Khimiya, No 7, 1959, 23451

Abstract: dissociate with separation of HCl and ROH.

 $(C_6H_5CH_2)_2O$ was prepared by heating II $(R = C_6H_5CH_2)$ with $C_6H_5CH_2OH$ to $40-60^\circ$. II $(R = C_6H_5CH_2)\cdot HC1$ dissociates with separation of RC1. -- F. Velichko

Card 3/3

. UNG/RY/Analytical Chemistry. Analysis of Organic Substances.

E

Abs Jour: Ref Zhur-Krim., No 9, 1959, 31092.

C3HyOH, or in other solvents not containing II or t eir mixtures. In analysis in an alkaline medium to alkali concentration as fixed at the level of 1.25. A small amount of Hi catalyst containing 3-5% of Al is increduced and the wole is heated for 30-50 minutes. A reflux condenser as used. The not very strongly bonded as separates in 15-20 minutes. The solution is then filtered free from the catalyst, acadefied with INO3 and ion I as determined according to Vollard's method. The de aloge action of organic substances that become very restatous or acquire dark coloration in an alkaline medium as performed in an acid solution using bone clarcoal as catalyst and granulated Z. for the liberation of Hz. The method is applicable when the concentration of substances under joint analysis is

Card : 2/3

107

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

HUTCHRY/Aralytheal C caratry. Analysis of Organic Substances.

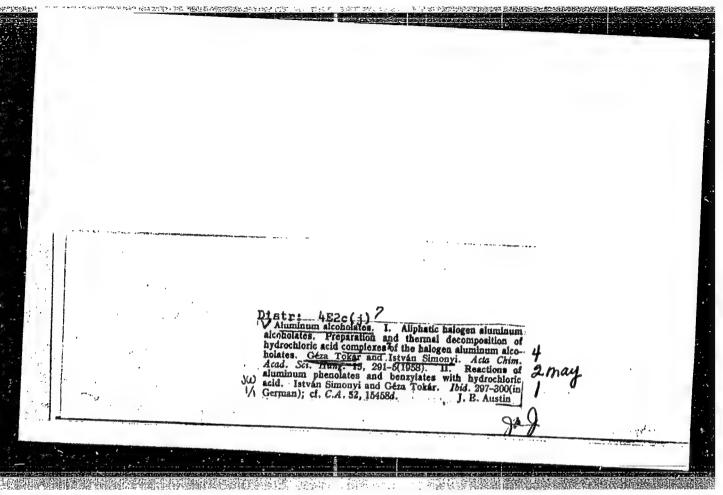
Abs Jour: Ref Z ur-K im., Ho 9, 1959, 31092.

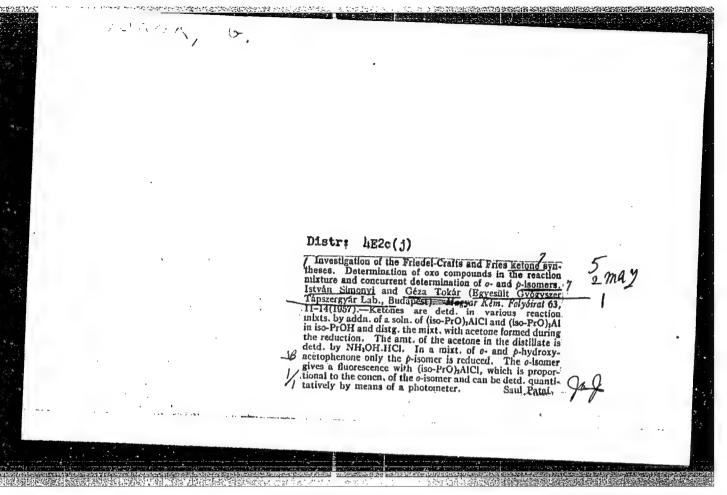
 \mathbf{E}

o.02 or 0.01 horsel. If content has been determined in monoc lorobenzene, in DDF, in n-c derop e.ol, chloramp enicol etc. I. was determined that under the described conditions 2 atoms of H separate from CHCl3. The method is used for preparative purposes in general and in particular for the control of the process of deriving 3,4 dioxy- \omega -bsopropylaminoacetop enone, with forms upon the interaction of a loroacetopyrocated in of reducing aryl- \omega -chinoalkylketones, and in the study of potassium salt of G-penicillin and of processe-peni-

Card : 3/3

AFFRON LES AND CONTRACTOR DE LA CONTRACTOR DEL CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR Country : Hungary Catogory= : Analytical Chemistry. Analysis of Organic E-3 . Substances. Abs. Jour. : Ref. Zhur. - Khimiya Ho. 6, 1959 19190 : Simonyi, I.; Tokar, G. : Hungarian Academy of Sciences Author Institut. : Syntheses of Ketones According to Friedel. Title Craft and Fries. Determination of the Content of Ketones in the Reaction Mixture. *
Orig. Pub.: Acta chim. Acad. scient. hung., 1958, 15, No 3, 285-290 Abstract : See RZhKhim, 1958, 35956. Card: * Determination of Ortho- and Para-Isomers in the Presence of One Another. 6-44





TOKAR. G. HUNGARY / Organic Chemistry. Synthotic Organic Chemistry. G-2 ibs Jour : RZhKhim., No 10, 1958, No 32412 : Gyorgy Gal, Istvan Simonyi, Goza Tokar. Luthor Inst : Not given Titlo : Corrections to the Paper of Gal, Simonyi and Tokar "Part of Aluminum Halogonalcoholatos at the Reduction by Moorwein-Ponndorf-Worloy. II. Roduction of -Bromokotonos with Mixed Aluminum Isopropylate and Aluminum Chloroisopropylate". • Magyar kom. folyoirat, 1956, 62, No. 3, 112. Orig Pub ..bstract : To RZhKhim, 1956, 61476 Card 1/1 11

TOKAR, G.

Science

"MAGYAR KEMIAI FOLYOIRAT"

Reaction of benzaldehyde with chlorine-aluminum isopropylate. p. 377 Vol. 64, No. 10, Oct. 1958

Monthly List of East European Accessions (ETAI), LC, Vol. 8, No. 4, April 1959 Unclas.

TOKAR, G.

Science

"MAGYAR KEMIAI FOLYOIRAT"

A new reagent for titrations in an anhydrous medium. III. Determination of aniline, pyridine derivatives, as well as p-aminobenzoic-acid esters by chlorine-aluminum-isopropylate hydrochloric-acid complex. p. 379

Vol. 64, No. 10, Oct. 1958

Monthly List of East European Accessions (EFAI), LC, Vol. 8, NQ. 4, April 1959

HUNGARY/Analytic Chemistry. Analysis of Organic Substances.

È

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77382.

Author : Tokar, Geza; Simonyi, Istvan.

Title : New Reagent for Titration in Non-Aqueous Media. I.

Determination of Codeine, Quinine, Quinidine and Papaverine with Hydrochloric Complex of Aluminum Chloroisopropylate.

Orig Pub: Magyar kem. folyoirat, 1958, 64, No 3, 94-96.

Abstract: The authors found that the complexes of aluminum chloroalcoholates with hydrochloric acid / (RO); A1-C1 / .HCl obtained by them previously (RZh-Khin, 1958, 61015) dissolved in water-free CHCl; behaved as monobasic acids and produced little-soluble in water salts with alkaloids and similar bases. These

Card : 1/3

HUNGARY/Analytic Chemistry. Analysis of Organic Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77382.

salts are not suitable for gravimetric analysis, because they are little soluble in organic solvents. The solution of aluminum chloroisopropylate (I) in water-free CHCl (other non-polar solvents are not suitable) was used in volumetric analysis for the determination of codeine, quinine, quinidine and papaverine. The indicator (3 to 4 drops of 0.2%-ual Ethyl Orange of Dimethyl Yellow solution in chlorobenzene) changes its color sharply from lemonyellow into red. 0.1 n. I solution is used, the titer is determined with codeine. In two months' time the titer changes by 1 to 2%. It is necessary either to maintain a constant temperature during the titration, or to make a correction for the heat expansion of the solution. A sample of 0.10 to 0.18 g of the alkaloid

Card : 2/3

97

TOKAK, G.

HUNGARY / Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61015.

: Geza Tokar, Istvan Simonyi. Author

Inst

: Study of Aluminum Alcoholates. Preparation of Aluminum Alcoholates, Their Complexes with HCl and Title

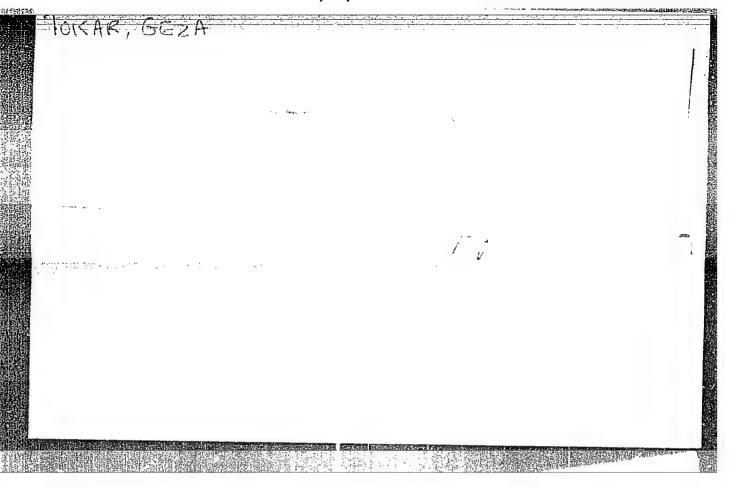
Their Thermal Decomposition.

Orig Pub: Magyar kem. folyoirat, 1957, 63, No 6-7, 172-176.

Abstract: Crystalline ClAl(OR)₂-s, where $R = CH_3$, C_2H_5 , C_3H_7 , iso-C3H7, tert.-C4H9, C6H5and C6H5CH2, were prepared at 60 to 80%-ual yields by passing 1 mole of HC1 (gas) through A1(OR)3 (I) solution in ROH after distilling ROH off. A corresponding crystalline C1A1(OR)2.HC1 (II) is produced by passing 2 moles of HC1 through I. II-s dissociate at heating (above 40°) producing RC1, R2O and ROH. Thus, the follow-

Card 1/2

38



HUNGARY/Analytical Chemistry - Analysis of Organic Substances E-3

Abs Jour : Ref Zhur O Khiniya, No 4, 1958, No 11050

Mothod of Quantitative Determination of Nitroglycerin in : Istvan Simonyi, Geza Tokar Author

Pharmaceutical Preparations Inst Title

Orig Pub : Lete pharmac. hung., 1957, 27, No 1-2, 17-19

Abstract: Nitroglycerin (I) is saponified and reduced by NH3 in a 0.1 to 0.5%-221 NaOH solution with Faney's catalyst. saponification and reductions proceed rapidly and quantitatively (sic!). A solution of I in alcohol containing from 0.7 to 1.0 g of I is diluted with alcohol to make 50 mlit, 5 nlit of water is removed (sic:), 20 nlit of water and 0.5 g of Raney's catalyst are added. The colution is slowly brought to the halling roint (regling condenses) to the boiling point (reflux condenser), 5 minutes and dis-NaOH solution is added, all is boiled 15 minutes and disneun solution is aured, and is bolled in an equipment consisting of t20 condensers contilled (in an equipment consisting of t20 condensers) nected in series) into a receiver with 20 mlit of 0.1 n.

: 1/2 Card

14

Card APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001

ルトかん, 6.

HUNGARY/Analytical Chemistry. Analysis of Organic Substances.

E-3

Abs Jour: Ref. Zhur.-Khimiya, 1958, No II, 35956.

Author : I. Simonyi, G. Tokar.

Inst : Not given.

Title: Synthesis of Ketons According to Friedl-Crafts and Fries.
The Determination of Content of Ketones in Reaction Mixture.
The Determination of Ortho-and Para-Isomers when They Are

Simultaneously Present.

Orig Pub: Magyar kem. folyoirat, 1957, 63, No I, II-14

Abstract: The method of determination of oxo-compounds published

before (R Zh Khim, 1956, 65336) can be used for determination of the content of ketones formed, according to the method Friedl-Crafts and Fries, directly in the reaction mixture. Under the action of Al isopropylate (I) and Al chlorisopropylate (II) the ketones are reduced and

Card : 1/3

HUNGARY/Analytical Chemistry. Analysis of Organic Substances.

E-3

Abs Jour: Ref. Zhur.~Khimiya, 1958, No II, 35956.

to control the course of Fries' rearrangement with an accuracy of up to + 2-3%. Detailed analyses methods are given in this paper.

Card : 3/3

TOKAR, G.; SIMONYI, I.

Investigation of Friedl-Crafts' and Fries' synthesis of ketones; determination of oxo compounds, determination of ortho- para-isomers side by side. p. 11. (Magyar Kemiai Folyoirat, Vol. 63, No. 1, Jan 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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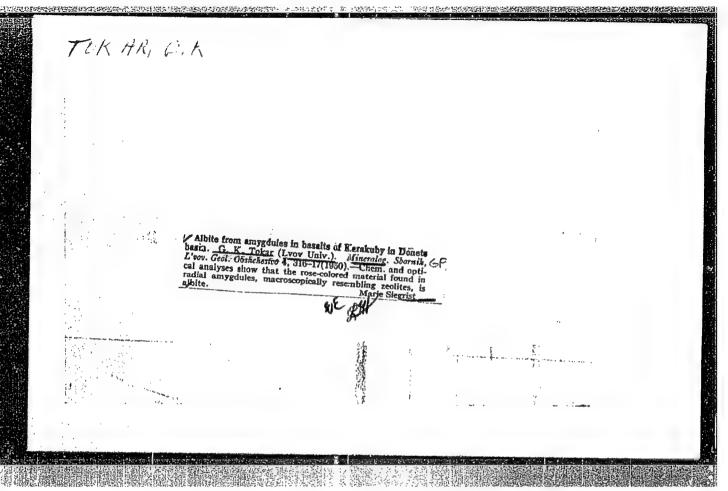
rokan, u.; Jimayi, I.

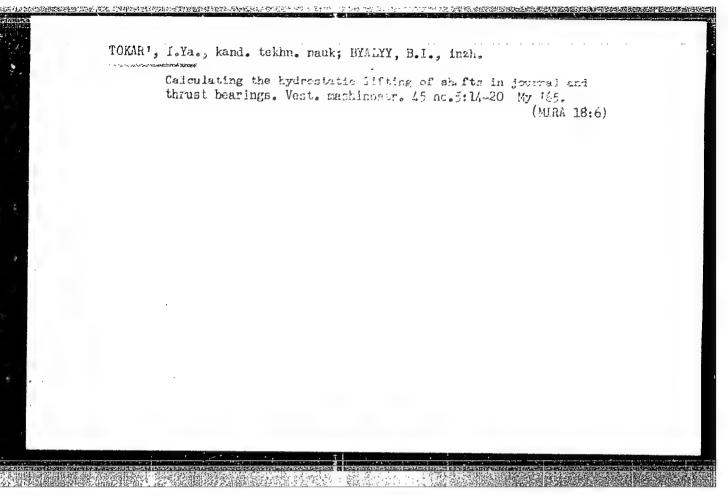
An investigation of aluminum alcholates; preparation of aluminum-chlorinealcholates, as well as their hydrochioric complex and their hermal decomposition.

p.172 (Magyar Kemiai Folyoirat) Budapest Vol. 63, no.6/7 June/July 1957

SO: Monthly Index of $E_{\rm g}$ st European Acessions (AHEI) Vol. 6, No. 11 November 1957

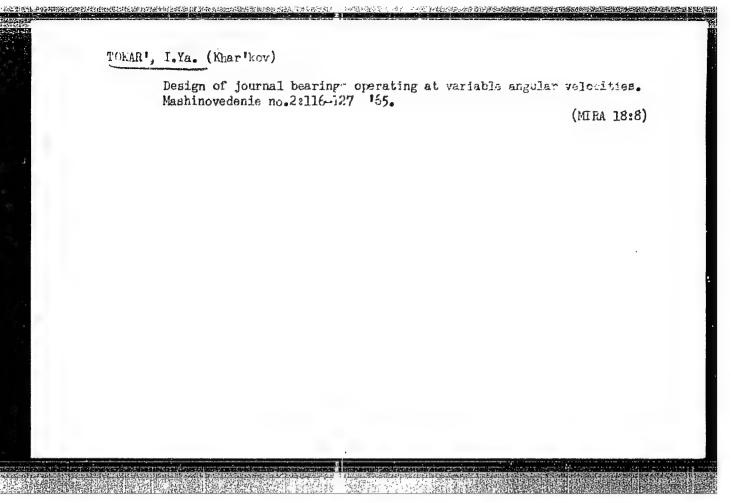
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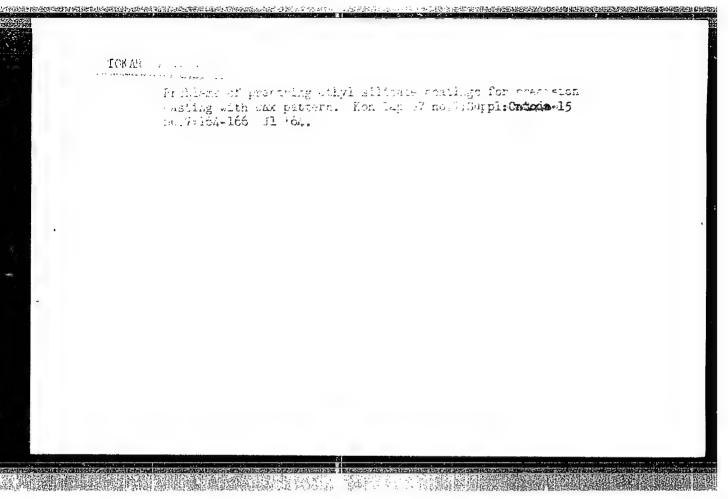




TOKAR', I.Ya. (Khar'kov); BYALYY, B.I. (Khar'kov)

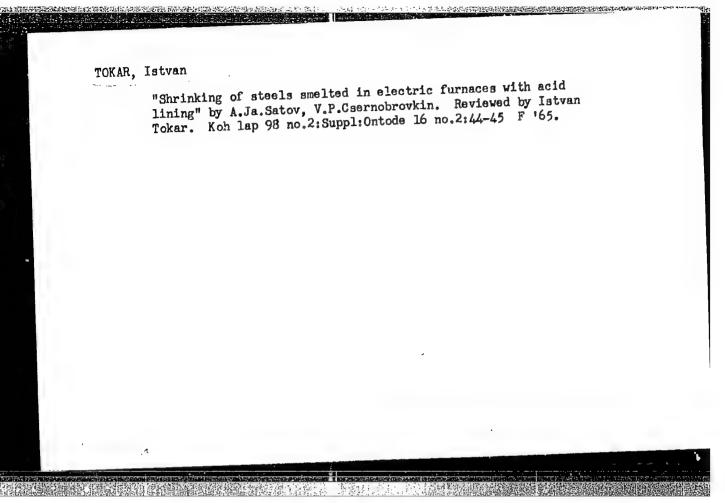
Design of thrust bearings. Mashinovedenie no.3:91-99 '65.
(MIRA 18:6)

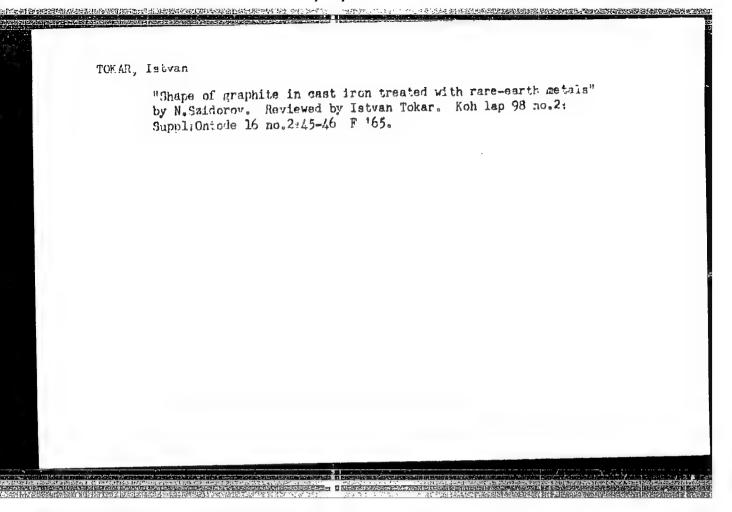




Dimensioning of the inpouring system of steel castings. Koh lap 96 no.12 Suppl.:Ontode 14 no.12:280-285 D '63.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"





GRUNER, Ede, okleveles gepeszmernok; SZENDE, Gyorgy, okleveles gepeszmernok; TOKAR, Istvan, okleveles kohomernok

Inventory of products and other materials in the foundries owned by the Ministry of Matallurgy and the Machine Industry. Koh lap 96 no.10:Suppl: Ontode 14 no.10:217-231 0 '63.

1. Gepipari Technologiai Intezet.

MAKHIN, V.A.; PRISNYAKOV, V.F.; TOKAR', I.F.

Theory of the outflow of a boiling liquid through a centrifugal jet. Izv.v,s.ucheb.zav.; av.tekh. 5 no.3:166-176 '62.

(Fluid dynamics)

(Fluid dynamics)

TOKAR, Istvan

"Specialization and designing of foundry workshops and factories" by V.M. Shestopal. Reviewed by Istvan Tokar. Koh lap 97 no.6:Suppl.:Ontode 15 no.6:141-143 Je'64.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

TOKAR, latvan

Characteristics of the low ressure casting of bronze. Koh lap 97 no.5: Suppl.:Ontcde 15 no.5:110 My'64.

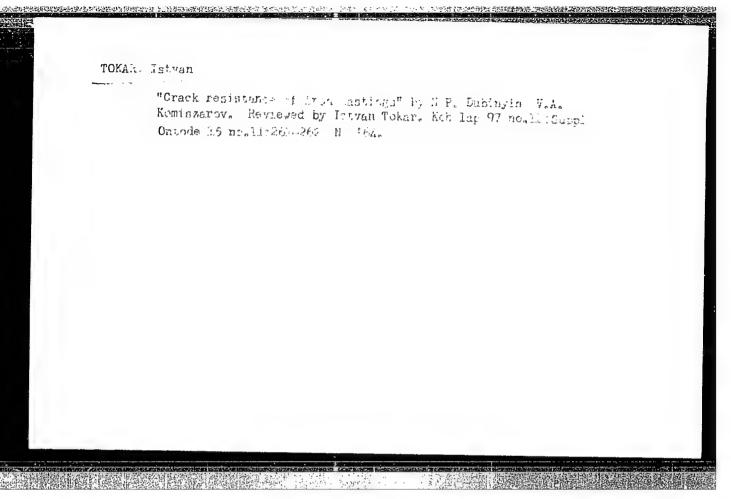
Determination of the thickness of outside chill from for iron castings with spheroidal graphite. Koh lap 97 no.5: 114 My 64.

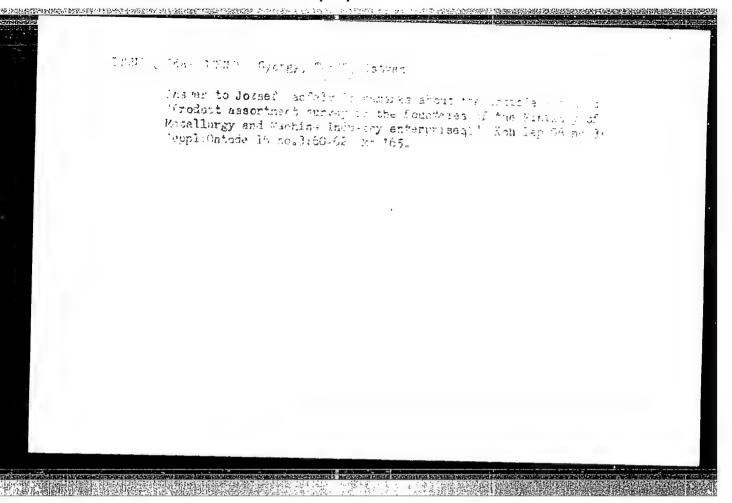
APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

TOKAR, Istvan, okleveles kohomernok

Quickly exchangeable mountings on moulding machines. Koh lap 95 no.12:Suppl.:Ontode 13 no.12:265-271 D '62.

1. Gepipari Technologiai Intezet.





ACC NR: AP7001424

(A)

SOURCE CODE: UR/0413/66/000/021/0141/0141

INVENTORS: Saksaganskiy, T. A.; Shandorov, G. S.; Tokar', I. P.; Stipura, A. P.; Shipitsyn, V. M.; Zel'dina, T. S.; Yurchenko, N. P.

ORG: none

TITLE: A method of testing hollow products for hermetic seal and for strength. Class 42, 188094 Zannounced by All-Union Scientific Research, Construction, and Engineering Institute of the Pipe Industry (Vseseyuznyy nauchno-issledovatel'skiy i konstruktorsko-tekhnologicheskiy institut trubnoy promyshlennosti) /

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 1/1

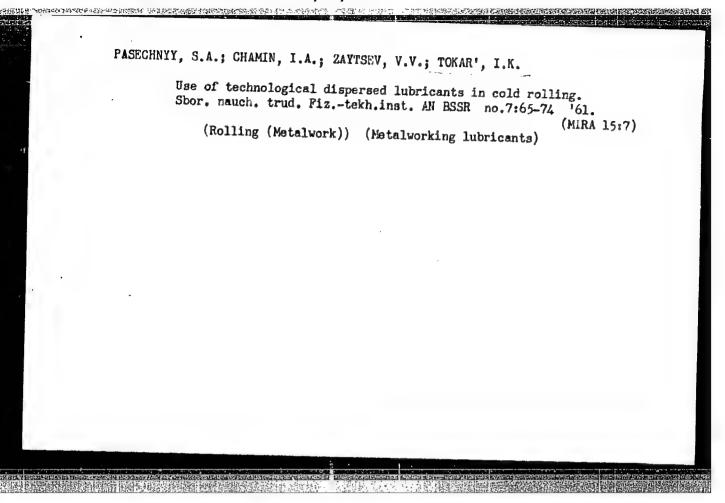
TOPIC TAGS: liquid gas container, liquid nitrogen, hermetic seal, pipe, static test,

ABSTRACT: This Author Certificate presents a method of testing hollow products for hermetic seal and for strength. The method involves filling a hollow product with water and connecting it to a working cylinder in which the necessary pressure is produced. To create high testing pressures, liquid gas, such as nitrogen, is introduced into the cylinder. This gas, while vaporizing, creates the necessary testing pressure. The intensity of this pressure depends on the amount of the introduced gas and on the rate of its vaporization. The working cylinder may be partly filled with water which forms an ice layer when some of the liquid gas is introduced. A

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UDC 2 620.165.29:620.178

measured amount of liquid gas is then poured onto the ice layer. To create a testing gas and then chilled by being submerged in a bath of the same liquid gas.			
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Card 2/2			



CHAMIN, I.A., inzh.; TOKAR', I.K., inzh.; ZAYTSEV, V.V., inzh.

Cold rolling of sheet steel with use of surface active metal-working lubricants. Sbor. trud. TSNIICHM no.2817-23 '62.

(Rolling (Metalwork)) (Metalworking lubricants)

(MIRA 15:11)

CHAMIN, I.A., inzh.; TOKAR', I.K., inzh.; BAUMAN, V.N., inzh.

Investigating the lubricating capacity of ultra-dispersed metal-working lubricants. Sbor. trud. TSNIICHM no.28:24-34 '62.

(MIRA 15:11)

(Metalworking lubricants--Testing)

S/130/60/000/04/03/006

18.5100

AUTHORS:

Tokar', I.K., and Chamin, I.A.

TITLE:

New Lubricants for Cold Rolling of Strips

PERIODICAL:

Metallurg, 1960, No. 4, pp. 28 - 29

Experiments conducted by TsNIIChM, - in which participated I.D.

Samoylov, V.A.Gamershteyn of Zaporozhstal Plant, I.I.Yelin, F.S.Lednikov, I.A.

Ostrovskiy, Ye.M.Kontsvaya of Serp i Molot Plant, M.A.Leychenko, V.V.Zaytsev, V.D.

Kolomatskiy (TsNIIChM), - have shown that vegetable and animal fats are closely resembling palm oil as far as physico-chemical properties are concerned and can therefore replace the latter. In view of the fact that animal fats are liable to oxidize quickly at high temperatures, in a moist medium and in the presence of metal, these can only be used in connection with cold rolling with the addition of antioxidizers. TsNIIChM in cooperation with VNIIMP has developed a number of lubricants on the basis of animal fats for cold rolling of thin low earbon (0.1%C) steel strips. Experiments permitted to make the following conclusions: almost all lubricants made from animal fat produced greater metal elongation during cold rolling than palm oil, best results were obtained with VNIIMP No. 2 and No. 6 lubricants made from suet with an addition of 3-5% of free fatty acids. For harder

Card 1/2

New Lubricants for Cold Rolling of Strips

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working conditions tests were conducted on the 222/600x650 mm rolling mill of Zapprozhstal' Plant with a rolling rate of 72 m/minute. The new lubricant proved more effective than palm oil, resulting in less friction between metal and working rollers, less load on the motor, less pressure of the metal on the rollers and learesistance of the metal to deformation, while the quality of the metal remained unchanged. The laboratory of the All Union Thermo-Technical Institute under the supervision of Professor K. I. Ivanov has developed a certain number of strong antioxidizers | for animal fats, of which the most effective is yanol (0.4% of fat) in conjunction with intensifier VTI-8 (0.02%). Using animal fat it requires 5 passes to roll a strip 0.4 mm thick from a 1.0 mm band while it takes 6 passes with an emulsion of mineral oil. In all instances of cold rolling of strips discussed in the article, it is pointed out by the author that it takes fewer passes to obtain a strip of the same thickness by using animal fat than it does when using mineral fat or stearin. Serp i Molot Plant has considerably intensified their process of cold rolling with lubricants from animal fat, especially in turning out thin (0.5 mg strips of stainless metal. The use of animal fat lubricants decreases the number of thermal and etching operations required, which reduces the consumption of metal during etching and annealing. There is 1 graph.

Cari 2/2

TOKAR', I.K.; CHAMIN, I.A.; Prinimali uchastiye: BOYKO, M.V.; CHUB, G.F;
GAMERSHTEYN, V.A.; YASHNIKOV, D.I.; FILONOV, V.A.; TROSHCHENKO,
N.A.; SAMOYLOV, I.D.; ZAYTSEV, V.V.; KOLOMATSKIY, V.D.

Efficient lubrication for the rolling of thin sheet iron.
Metallurg 6 no.8:22-24 Ag 161. (MIRA 14:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Tokar', Chamin, Zaytsev, Kolomatskiy). 2. Zavod "Zaporozhstal'" (for Boyko, Chub, Gamershteyn, Yashnikov, Filonov, Troshchenko, Samoylov).

(Metalworking lubricants) (Sheet iron)

\$/137/62/000/010/006/028 A052/A101

AUTHORS:

Afanas'yev, I. D., Dobkin, I. Ye., Sazanova, M. N., Soltan, S. G., Garzanov, G. Ye., Tokar', I. K., Chamin, I. A., Belosevich, V. K.,

Pavlov, I. M.

TITLE:

The effect of substances with a lower surface tension in the composition of synthetic lubricants on the cold rolling of

thin metal strips

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 10, 1962, 8,

abstract 10D46 ("Novosti neft. i gaz. tekhn. Neftepererabotka i

neftekhimiya", no. 4, 1962, 23 - 27)

The data on the effect of various technological lubricants on the TEXT: cold rolling of strips on a two- and four-high mill are cited. Synthetic greases, - esters of saturated synthetic fatty acids, - reduce the friction and the resistance of metal to deformation at rolling of carbon steel and Ti (BT-1-T) (VT-1-T) strips more effectively than animal fat, palm oil, mineral oils etc. Synthetic lubricants, due to their low costs and good lubricating quality, should

Card 1/2

\$/137/62/000/010/006/028

The effect of substances with a lower surface tension.. A052/A101

be recommended for an extensive testing on cold rolling mills.

N. Yudina

[Abstracter's note: Complete translation]

Card 2/2

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S/130/61/000/008/002/005 A006/A101

AUTHORS:

Tokar', I. K.; Chamin, I. A.

TITLE:

Efficient greases in rolling thin tin plate

PERIODICAL: Metallurg, no. 8, 1961, 22-24

TEXT: An investigation was made at TsNIIChM and the Zaporozhstal' plant to determine the effect of various surface-active greases (palm oil, castor oil, etc.) in rolling steel strips and plate on a four-high rolling mill. The study was carried out with the participation of M. V. Boyko, G. F. Chub, V. A. Gamer-shteyn, D. I. Yashnikov, V. A. Filonov, N. A. Troshchenko, I. D. Samoylov (Zaporozhstal' Plant), V. V. Zaytsev, V. D. Kolomatskiy (TsNIIChM). It was found that during the rolling of strips with the use of castor oil, the external friction coefficient decreased with greater reduction and cold working of the strip, and that within a reduction range up to 20% and over 50% and a specific load up to 80 kg/mm the friction coefficient and the deformation resistance of the metal increased. The rolling process is stable at a load over 80 kg/mm. If the specific load on the rolls exceeds 130 kg/mm², the rolling process becomes unstable. The range of stable process is 10 to 40% reduction for palm oil, and

Card 1/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

S/130/61/000/008/002/005 A006/A101

Efficient greases in rolling thin tin plate

up to 50% reduction for castor oil. This is different for mineral oil and water emulsions. The critical reduction range per pass, when an abrupt increase of the metal deformation resistance takes place, is within 20 - 30% reduction at 100 kg/ mm² specific load. The established regularities are of great practical importance. Previously, when rolling with a low-efficient emulsion, the rolling conditions were established on the assumption that the relative reduction decreased during the final pass and did not exceed 5 - 10%. When using surface active greases, reduction in the final pass was raised thus making it possible to eliminate one pass and to raise the efficiency of single-stand mills by 30 - 40%. The use of surface active greases reduced specific pressure on the rolls so that 0.8 mm thick metal can be used instead of 0.6 mm thick metal. The total deformation of strips was also increased by the new greases, so that thinner tin plate (up to 0.20 mm thick) can be produced. Presently, at Zaporozhstal 0.20 - 0.25 mm thick tin plate is rolled on a single-stand mill from annealed 0.6 mm thick metal by two passes and by three passes on a continuous mill. Plate of 0.28 mm thickness is rolled from nonannealed metal in two passes. The experimental investigation has shown that the use of surface-active greases instead of water emulsion, permits the rolling of tin plate with higher partial and total reduction, and a

Card 2/3

S/130/61/000/008/002/005 Efficient greases in rolling thin tin plate A006/A101

reduction of passes from three to two. It is recommended to introduce such greases in other metallurgical plants. There is 1 figure.

ASSOCIATION: TSNIIChM

Card 3/3

BYALY, B.I.; TOKAR!, I.Ya. (Khar!kov)

"Block bearing lubrication in hydrostatical lifting of shafts"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

L 10143-63 EPF(c)/EWT(m)/BDS/ES(s)-2-AFFTC/AFGC/SSD-Fr-4/Ft-4-EW/DJ ACCESSION NR: AP3000893 S/0179/63/000/002/0149/0152

AUTHOR: Tokar', I. Ya,; Chernyakov, P. S. (Khar'kov)

TITIE: Contribution to the problem of the <u>lubrication</u> of <u>journal bearings</u> having a bearing surface of axially-symmetrical form.

SOURCE: AN SSSR. Izv. Otd. tekh. nauk. Mekhanika i mashinostroyeniye, no. 2, 1963, 149-152

TOPIC TAGS: journal bearing, friction bearing, axially-symmetrical journal bearing, bearing for large turbogenerator, design charts for bearings

ABSTRACT: The present theoretical study constitutes an extension of I. Ye. Tarapov's study on the steady-state flow of a viscous, incompressible, fluid between two flat rotating disks (Akad. nauk SSSR, Izv., Otd. tekh. nauk. Mekhanika i mashinostroyeniye, no. 2, 1959) and the first author's study of the similar problem of a frustum of cone and a plane disk (Vestnik elektropromyshlennosti, no. 6, 1960), the latter of which resulted in the

Card 1/2

L 1011/3-63 ACCESSION NR: AP3000893

recommendation of end seals with a conical bearing surface for large turbogenerators. The present paper endeavors to develop calculation formulas for the design of some end seals and a number of types of thrust bearings with a conical bearing surface. The analysis examines the stationary flow of an incompressible viscous fluid between two axially symmetrical surfaces of which one rotates and the other is fixed. The flow is assumed to be laminar. Upon formulation of the Navier-Stokes equation and the equation of continuity, integration yields expressions for the loss of lubricant at the periphery, the friction moment, and the load-carrying capacity. Specific expressions are set forth for journal bearings with a bearing surface of conical shape and similar bearings having a cylindrical collar at the small-diam end of the journal which is helpful in ensuring effective lubrication under starting conditions and which in effect creates a bearing with a combined conical and cylindrical bearing surface. From the working charts developed from the analytical expressions for the dimensionless load-carrying capacity in terms of a nondimensional internal radius, it follows that the load-carrying capacity grows not only with increasing boundary pressure, but also with decreasing internal radius. Here not only the nondimensional load-carrying capacity but also the maximum admissible load increases. There are 17 numbered equations and 5 figures. none

ASSOCIATION: none SUBMITTED: 03May62 SUB CODE: 1/MD FI Card 2/2014CR

DATE ACQ: 12Jun63 HR REF SOV: 003 ENCL: 00 OTHER: 000

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TCKAR', I.Ya. (Khar'kov); CHERNYAKOV, F.S. (Khar'kov)

Lubrication of thrust bearings having a conic supporting surface taking heat transmission into consideration. Izv.AN SSSR. Wein. i mashinostr. no./.123-126 J1-Ag '63. (MIRA 17:4)

ACC NR: AP7009581

SOURCE CODE: UR/0114/66/000/011/0028/0031

AUTHOR: Tokar', I. Ya. (Candidate of Technical Sciences); Byalyy, B. I. (Engineer); Shayn, A. S. (Engineer)

ORG: none

TITLE: Design of thrust bearings

SOURCE: Energomashinostroyeniye, no. 11, 1966, 28-31

TOPIC TAGS: viscous flow, friction

SUB CODE: 20

ABSTRACT: An analysis of an analytic solution for the three-dimensional hydrodynamic problem of the flow of a viscous liquid between surfaces of complex form with a fixed law of distribution of oil pressure on the boundaries of the area. Formulas are produced for the distribution of pressure, carrying capacity, friction and oil expenditure, calculation with which gives completely satisfactory correspondence with the results of calculation using the finite differences method on the "Ural" computer and with experimental data. Orig. art. has: 2 figures, 24 formulas and 3 tables. TPRS: 40,102

Card 1/1

UDC: (62-233.23+63-762)62-135.001.24

0930 11:13

TOKAR', I.YA.; CHERNYAKOV, P.S. (Khar'kov)

"Lubrication of bearings operating the reverse regime"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

TOKAR', I.Ya., kand. tekhn. nauk; BYALYY, B.I., inzh.

Hydrostatic lifting of shafts in journal bearings. Vest.
mashinostr. 43 no.7:11-15 Jl '63. (MIRA 16:8)

(Bearings (Machinery))—Lubrication)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

TOKAR', I.Ya., kand.tekhn.nauk; CHERNYAKOV, P.S.

Designing friction supports with a conic carrying surface. Vest.
mashinostr. 43 no.3:15-20 Mr 163. (MIRA 16:3)

(Bearings (Machinery))

TOKAR!, I.Ya., kand.tekhn.nauk; D'YACHENKO, S.K., kand.tekhn.nauk; BOCDANOV, O.I., kand.tekhn.nauk; DOVZHUK, A.Ya., inzh.

Concerning the design of the end seals of a turbogenerator rotor. Vest. elektroprom. 32 no.5:68-70 My '61. (MIRA 15:5) (Turbogenerators)

S/122/63/000/003/003/008 A004/A127

THE REAL PROPERTY OF THE PROPE

AUTHORS: Tokar', I.Ya., Candidate of Technical Sciences; Chernyakov, P.S.

TITLE: Calculation of friction bearings with tapered carrying surface

PERIODICAL: Vestnik mashinostroyeniya, no. 3, 1963, 15 - 20

TEXT: Since bearings of hydrodynamic friction used at present to an increasing extent have an inclined bearing carrying surface, which requires manual finishing operations, it is of considerable interest to develop surfaces that do not require manual scraping, but can be manufactured with practically any required accuracy on lathes. The authors present appropriate formulae for calculating the necessary parameters of such machining processes and compare the basic sealing parameters obtained by calculation with those obtained as a result of tests at an excess pressure of compressed air of 3 atm, which proved that the calculation results according to the recommended formulae were sufficiently corroborated by the tests. There are 7 figures.

Card 1/1

TOKAR', I.Ya., kand.tekhn.nauk; DAN'KO, V.G., inzh.; TENETKO, N.I., inzh.;

PETROVA, A.A., inzh.; KRASNER, A.G., inzh.

Hydrostatic rise of shafts in radial bearings. Vest. elektroprom.

33 no.7:57-60 Jl '62. (MIRA 15:11)

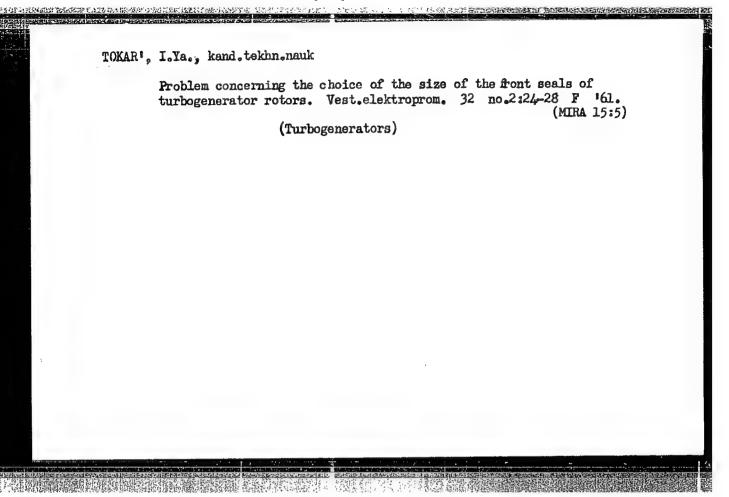
(Turbogenerators) (Bearings (Machinery))

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TENETKO, N.I.; TOKAR', I.Ya., kand.tekhn.nauk; DAN'KO, V.G., inzh.;
KRIVONOS, A.F.

Calculating hydrostatic floating of shafts in supporting bearings.
Vest.mashinostr. 42 no.6:14-17 Je '62. (MIRA 15:6)
(Bearings (Machinery)) (Shafting)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"



S/110/60/000/011/004/012 E194/E484

AUTHORS: D'yachenko, S.K., Candidate of Technical Sciences,

Bogdanov, O.I., Candidate of Technical Sciences, Dovzhuk, A.Ya., Engineer and Tokar', I.Ya., Engineer

TITLE: An Experimental Study of Annular (Hydrogen) Seals on a

Turbo-Generator Shaft Having a Conical Bearing Surface

PERIODICAL: Vestnik elektropromyshlennosti, 1960, No.11, pp.41-43

The bearing surfaces of annular seals usually consist of separate fixed sectors and contain surfaces that slope to the direction of motion and also areas parallel to the ithrust block, see Fig.1. These shapes have to be made by hand which is rather An article by Tokar' in Vestnik elektropromyshlennosti inaccurate. No.6, 1960 described annular seals with bearing surface of conical shape, that is with a wider gap at the small diameter than at the large, see Fig.2. The previous work showed that although there is no slope in the direction of the motion, the conical oil film can withstand considerable loads. The object of the present article was to check the correctness of the calculations given in the previous article and to establish the reliability of the seal. The Elektrotyazhmash Works built a rig to test the glands for a Card 1/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

S/110/60/000/011/004/012 E194/E484

A DESCRIPTION OF THE PROPERTY OF THE PROPERTY

An Experimental Study of Annular (Hydrogen) Seals on a Turbo-Generator Shaft Having a Conical Bearing Surface

turbo-alternator of 200 MW, the main dimensions are given. The oil flow and the measurement procedure is described. temperature were measured. The oil pressure was measured at inlet to the seal and in the circular channel, see Fig. 2. The induction method with U-shaped transformer type transducers was used to measure the minimum oil film thickness, the arrangement is shown in Fig.3. The circuit used to measure the oil film thickness is shown in Fig.4. The method of measurement is independent of the temperature of the medium surrounding the inductive transducers. A calibration curve for the instrument is given in Fig.5. be seen that the sensitivity of the circuit is about 1 micron in the thickness range up to 30 microns and 2.5 microns in the range up to 150 microns. The main tests were made with a gas pressure inside the frame of 3 atm with a spring pressure of 100 kg and the results are tabulated. The minimum film thickness with a gas (hydrogen) pressure of 3.2 kg/cm² and oil pressure of 3.6 kg/cm² was 0.12 mm. The agreement between calculated and experimental values is satisfactory and Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

S/110/60/000/011/004/012 E194/E484

An Experimental Study of Annular (Hydrogen) Seals on a Turbo-Generator Shaft Having a Conical Bearing Surface

accordingly the formulae given in the previous article are recommended for practical use. There are 5 figures, 1 table and 2 Soviet references.

SUBMITTED: May 25, 1960

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

THE STATE OF THE PROPERTY OF T

D'YACHENKO, S.K., kand.tekhn.nauk; BOODANOV, O.I., kand.tekhn.nauk; DOVZHUK,
A.Ya., inzh.; TOKAR!, I.Ya., inzh.

Experimental study of axle face packing in a turgogenerator with
a conical carrying surface. Vest. elektroprom. 31 no.11:41-43 N
(MIRA 13:12)
160.

(Turbogenerators) (Packing (Mechanical engineering))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

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nezawiżych T	DE UNISERIE DE LA PROPERTIE DE
3	TOKAR', I. Ya., inzh.
	End packings of a turbogenerator shaft with conical carring surface. Vest.elektroprom. 31 no.6:60-63 Je '60. (MIRA 13:7) (Turbogenerators) (Packing (Mecahnical engineering)
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TOKAR, I. YA, Cand Tech Sci — (aiss) "Investigation of the end packings of the turbine generator rotor," Kharkov, 1960,21 pp, 150 cop. (Kharkov Polytechnical Institute im V, I. Lenin) (KL, 42-60, 115)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

SOV/110-59-8-11/24.

THE MENT OF THE PROPERTY OF TH

AUTHOR: Tokar, I. Ya, Engineer.

TITLE: The Design of (Hydrogen Sealing) Glands on a Turbo-

generator Shaft.

PERIODICAL: Vestnik elektropromyshlennosti 1959, Nr 8, pp 46-49,

(USSR)

ABSTRACT: To secure higher alternator ratings the pressure of

hydrogen inside them is increased, the loadings on the rotor glands are raised and the oil film thicknesses are reduced. A clear understanding is required of the pressure distribution and other characteristics of the glands. The oil-hydrogen seals of turbo-generators operate like thrust bearings but the methods of thrust bearing design cannot be applied to the glands because of important differences in the construction, which are briefly described with

reference to the diagram in Fig 1. Therefore, the pressure distribution on the bearing surfaces is calculated by the method of finite differences, as in equation (1), which can give a close approximate solution of Reynolds' equation for the lubricant lever. For better application of the

for the lubricant layer. For better application of the

Card 1/3

SOV/110-59-8-11/24

The Design of (Hydrogen Sealing) Glands on a Turbo-generator Shaft.

method of finite differences this equation is rewritten in the form of equation (2). In determining the pressure distribution and oil flow a coordinate grid is applied to the bearing surface, as shown in Fig 2, and then equation (2) is replaced by a system of linear equations. The method of calculating the oil pressure and the loadcarrying capacity of the bearing surface is then explained. The minimum thickness of oil layer is determined for the working load by means of the curve in Fig 3, which is a dimensionless relationship obtained during the design of glands for a 200 MW turbo-alternator. Formulae are then given for the oil flow, the power loss in the gland and the heating of the oil. The application of the theories of dimensions and of similarity to the design of the glands is briefly discussed. Using the method of finite differences. several shapes of bearing surface may be considered and the best one chosen in respect of reliability of oil film thickness, flow and the temperature rise. This shape of gland may then be used for a series of turbo-generators by

Card 2/3

SOV/110-59-8-11/24

The Design of (Hydrogen Sealing) Glands on a Turbo-generator Shaft.

the application of formulae (15) and (16). The accuracy of the calculation was checked by tests on the glands of a 200 MW turbo-generator. Various experimental and calculated characteristics are compared in a Table, and agreement is stated to be satisfactory. There are 4 figures, 1 table and 3 Soviet references.

SUBMITTED: February 2, 1959.

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020001-9"

TOKAR', I.Ya. (Khar'kov); CHERNYAKOV, P.S. (Khar'kov)

Problem of the lubrication of friction bearings having an axisymmetric shape of the carrying surface. Izv. AN SSSR Otd. tekh. nauk. Mekh. i mashinostr. no.2:149-152 Mr-Ap '63. (MIRA 16:6)

(Bearings (Machinery) - Lubrication)

TOKAR', I.Ya., kand. tekhn. nauk; BYALYY, B.I., inzh.

Designing thrust bearings and end sealings of rotors of turbogenerators. Vest. mashinostr. 44 no.11:18-23 N '64 (MIRA 18:2)

TOKAR, J.

Yugoslavia (430)

Technology-Periodicals

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